

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| S1    | 4    | ((("4329075") or ("5366302") or ("5576751") or ("6247859")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | OFF     | 2006/09/23 14:32 |
| S2    | 27   | ("3632969"   "3795298"   "3822005"   "3855448"   "3939957"   "3989131"   "4134696"   "4145698"   "4151397").PN. OR ("4329075").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2006/09/23 14:42 |
| S3    | 31   | ("4962392"   "5005020").PN. OR ("5366302").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2006/09/23 14:50 |
| S4    | 4    | ("4456392").PN. OR ("5576751").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2006/09/23 14:53 |
| S5    | 6    | ("4558963"   "5017028"   "5033888"   "5112149"   "5372439"   "5649774").PN. OR ("6247859").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2006/09/23 14:56 |
| S6    | 2    | ep-361826-\$.did.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/23 14:57 |
| S7    | 2    | ep-555556-\$.did.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/09/23 14:58 |
| S8    | 25   | (US-5576751-\$ or US-4151397-\$ or US-4775252-\$ or US-5541635-\$ or US-5697714-\$ or US-6769825-\$ or US-6975340-\$ or US-5372439-\$ or US-7042480-\$ or US-3822005-\$ or US-4396308-\$ or US-5033888-\$ or US-6061076-\$ or US-4329075-\$ or US-5366302-\$ or US-5779371-\$ or US-5649774-\$ or US-6247859-\$ or US-4456392-\$ or US-4558963-\$ or US-5017028-\$).did. or (EP-361826-\$ or EP-555556-\$).did. or (EP-361826-\$ or GB-2263086-\$).did. | USPAT;<br>EPO;<br>DERWENT  | OR               | ON      | 2006/09/25 02:31 |
| S9    | 1    | S8 and actuator   | USPAT;<br>EPO;<br>DERWENT  | OR               | ON      | 2006/09/25 02:45 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S10 | 12  | S8 and motor   | USPAT;<br>EPO;<br>DERWENT   | OR | ON  | 2006/09/25 02:45 |
| S11 | 0   | S10 and servo  | USPAT;<br>EPO;<br>DERWENT   | OR | ON  | 2006/09/25 02:45 |
| S12 | 2   | S10 and sensor   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 02:46 |
| S13 | 6   | ("4558963"   "5017028"   "5033888"  <br>"5112149"   "5372439"   "5649774").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/25 12:51 |
| S14 | 222 | (400/120.16).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/25 12:52 |
| S15 | 166 | (101/100).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/25 12:52 |
| S16 | 59  | (400/120.17).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/25 12:59 |
| S17 | 463 | (347/197).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/25 12:52 |
| S18 | 114 | (347/198).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/25 13:38 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S19 | 222 | (347/220).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/25 12:59 |
| S20 | 17  | ("4844632").URPN.  | USPAT   | OR | ON  | 2006/09/25 13:06 |
| S21 | 23  | ("3845850"   "4179210"   "4495507"  <br>"4570168"   "4594597"   "4694305"  <br>"4707706"   "4844632"   "4857941"  <br>"4860028"   "5051009"   "5160205"  <br>"5189477"   "5366302"   "5440328"  <br>"5528277"   "5546115"   "5546116"  <br>"5600362"   "5610649"   "5674013"  <br>"5694159"   "5806996").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/25 13:10 |
| S22 | 20  | S18 and linear   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 13:40 |
| S23 | 154 | S16 or S18   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 13:40 |
| S24 | 21  | S23 and actuator   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 13:59 |
| S25 | 4   | S23 and (servo adj motor)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/26 23:16 |
| S26 | 2   | S24 and S25  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 14:00 |
| S27 | 10  | S24 and thickness  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 14:11 |

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|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S28 | 45     | S23 and thickness  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/25 14:11 |
| S29 | 45     | (US-20060083571-\$ or<br>US-20050031395-\$).did. or<br>(US-5033888-\$ or US-5017028-\$ or<br>US-6266075-\$ or US-6247859-\$ or<br>US-5576751-\$ or US-6061076-\$ or<br>US-4844632-\$ or US-4151397-\$ or<br>US-3822005-\$ or US-5649774-\$ or<br>US-6789966-\$ or US-5473984-\$ or<br>US-4708500-\$ or US-RE35026-\$ or<br>US-6975340-\$ or US-5678938-\$ or<br>US-4456392-\$ or US-4558963-\$ or<br>US-6769825-\$ or US-5372439-\$ or<br>US-6099176-\$ or US-6095701-\$ or<br>US-7042480-\$ or US-6076983-\$ or<br>US-5541635-\$ or US-5806996-\$).did.<br>or (US-4775252-\$ or US-4396308-\$ or<br>US-4329075-\$ or US-5040461-\$ or<br>US-4913567-\$ or US-5697714-\$ or<br>US-4860028-\$ or US-5779371-\$ or<br>US-5149210-\$ or US-6056454-\$ or<br>US-5366302-\$ or US-5172137-\$ or<br>US-4848945-\$).did. or (EP-555556-\$<br>or EP-361826-\$).did. or<br>(GB-2263086-\$ or EP-361826-\$).did. | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON  | 2006/09/26 23:47 |
| S30 | 1      | S29 and (servo adj motor)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON  | 2006/09/26 23:12 |
| S31 | 68030  | ("347").CLAS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/26 23:16 |
| S32 | 75079  | ("400").CLAS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/26 23:16 |
| S33 | 138725 | S31 S32  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/26 23:16 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S34 | 1   | S33 and (ribbon spool) and (servo adj motor) and (rotation with sensor) and (reverse adj voltage) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:17 |
| S35 | 28  | S33 and (ribbon spool) and (servo adj motor) and (rotation with sensor)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:24 |
| S36 | 469 | S33 and (ribbon spool) and (rotation with sensor)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:24 |
| S37 | 134 | S33 and ribbon and spool and (rotation with sensor)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:24 |
| S38 | 62  | S37 and (spool with rotation)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:25 |
| S39 | 741 | S33 and (servo adj motor)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:25 |
| S40 | 4   | S39 and (reverse adj voltage)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:28 |
| S41 | 48  | S38 and ((motor drive) with spool)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:33 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S42 | 4   | S29 and ((stationary pagewidth) near2 (printhead (print adj head))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/26 23:34 |
| S43 | 11  | S29 and actuator  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:58 |
| S44 | 0   | S43 and (double near3 actuator)                                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:47 |
| S45 | 277 | S33 and (double near3 actuator)                                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:47 |
| S46 | 258 | S33 and (double near2 actuator)                                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:51 |
| S47 | 66  | S33 and (double near acting)  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/27 00:05 |
| S48 | 5   | S46 and S47   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:51 |
| S49 | 16  | S29 and thickness   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:59 |
| S50 | 0   | S29 and (thickness near2 sensor)                                    | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/26 23:59 |
| S51 | 1   | S29 and (thickness with sensor)                                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/27 00:00 |
| S52 | 1   | S47 and (thickness with sensor)                                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON | 2006/09/27 00:00 |

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|     |     |                                 |   |    |     |                  |
|-----|-----|---------------------------------|---|----|-----|------------------|
| S53 | 446 | S33 and (thickness with sensor) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON  | 2006/09/27 00:06 |
| S54 | 222 | (400/120.16).CCLS.              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/27 00:05 |
| S55 | 59  | (400/120.17).CCLS.              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/27 00:05 |
| S56 | 463 | (347/197).CCLS.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/27 00:05 |
| S57 | 114 | (347/198).CCLS.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/27 00:05 |
| S58 | 727 | S54 S55 S56 S57                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/27 00:05 |
| S59 | 1   | S58 and (double near acting)    | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON  | 2006/09/27 00:08 |
| S60 | 7   | S58 and (thickness with sensor) | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON  | 2006/09/27 00:06 |
| S61 | 66  | S58 and double                  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT                            | OR | ON  | 2006/09/27 00:08 |